L Number	Hits	Search Text	DB	Time stamp
1	400	(704/246).CCLS.	USPAT;	2003/06/18 18:14
			EPO; JPO;	
			DERWENT;	
_	_		IBM_TDB	
2	2	((704/246).CCLS.) and ((director\$3 or	USPAT;	2003/06/18 18:15
	į	<pre>inventor\$3 or warehouse\$1 or shop\$1 or floor\$1) near (manag\$3 or management)) and</pre>	EPO; JPO;	
		((voice or speech or audio) near	DERWENT; IBM TDB	
		recognition\$1)	1511_155	
3	2	((704/246).CCLS.) and ((director\$3 or	USPAT;	2003/06/18 18:16
	į	inventor\$3 or warehouse\$1 or shop\$1 or	EPO; JPO;	
		floor\$1) near (manag\$3 or management))	DERWENT;	
4	509	(704/251) COT C	IBM_TDB	2002/06/10 10-15
4	309	(704/251).CCLS.	USPAT; EPO; JPO;	2003/06/18 18:15
			DERWENT;	
			IBM TDB	
5	0	((704/251).CCLS.) and ((director\$3 or	USPAT;	2003/06/18 18:16
		inventor\$3 or warehouse\$1 or shop\$1 or	EPO; JPO;	
		floor\$1) near (manag\$3 or management))	DERWENT;	
6	184	(704/272) CCIS	IBM_TDB	2002/06/10 10:16
V	184	(704/272).CCLS.	USPAT; EPO; JPO;	2003/06/18 18:16
			DERWENT;	
			IBM TDB	·
7	1	((704/272).CCLS.) and ((director\$3 or	USPĀT;	2003/06/18 18:16
		inventor\$3 or warehouse\$1 or shop\$1 or	EPO; JPO;	
:	·	floor\$1) near (manag\$3 or management))	DERWENT;	
8	730	(704/275).CCLS.	IBM_TDB USPAT;	2003/06/18 18:16
	/30	(104/273).0013.	EPO; JPO;	2003/06/18 18:16
			DERWENT;	
	,		IBM TDB	
9	1.		USPAT;	2003/06/18 18:16
		inventor\$3 or warehouse\$1 or shop\$1 or	EPO; JPO;	
		floor\$1) near (manag\$3 or management))	DERWENT;	
10	252	(704/276).CCLS.	IBM_TDB USPAT;	2003/06/18 18:16
_ ~ ~		(101/2/0):0020:	EPO; JPO;	2003,00,10 10.10
			DERWENT;	
			IBM_TDB	
11	0	((704/276).CCLS.) and ((director\$3 or	USPAT;	2003/06/18 18:17
		<pre>inventor\$3 or warehouse\$1 or shop\$1 or floor\$1) near (manag\$3 or management))</pre>	EPO; JPO;	
		1100191) Hear (Manag93 Or Management))	DERWENT; IBM TDB	
_	2	("6157705").PN.	USPAT;	2003/02/04 13:28
			EPO; JPO;	,
1			DERWENT;	
		/#6002045#\ DN	IBM_TDB	2002/00/04 12 22
-	2	("6092045").PN.	USPAT; EPO; JPO;	2003/02/04 13:38
			DERWENT;	
			IBM TDB	
-	34875	locator	USPAT;	2003/02/04 13:38
			EPO; JPO;	
			DERWENT;	
_	48	locator and locate and aisle	IBM_TDB USPAT;	2003/02/04 13:38
	40	rocator and rocate and arsie	EPO; JPO;	2003/02/04 13:38
			DERWENT;	
			IBM TDB	
-	1	("6507352").PN.	USPĀT;	2003/02/05 11:46
			EPO; JPO;	
			DERWENT;	
_	1031	 bin adj number	IBM_TDB USPAT;	2003/02/05 11:46
			EPO; JPO;	2000,02,00 11.40
			DERWENT;	
			IBM_TDB	

_	107	(bin adj number) same display	USPAT;	2003/02/05 12:00
		· -	EPO; JPO;	
			DERWENT;	
	0.0	//bim add manham) diamina	IBM_TDB	0000/00/05 44 45
_	80	((bin adj number) same display) and locat\$	USPAT;	2003/02/05 11:47
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	131	((row or slot) adj location) same display	USPAT;	2003/02/05 12:01
	101	(110" of bioe, adj foodefon, bame display	· •	2003/02/03 12.01
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	131	(((row or slot) adj location) same	USPAT;	2003/02/05 12:01
		display) and locat\$	EPO; JPO;	
		_ -	DERWENT;	
			IBM TDB	
l _	131	///rou or alath add legation) some	_	2002/02/05 10 14
	131	(((row or slot) adj location) same	USPAT;	2003/02/05 12:14
		display) and display	EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	5	(slot adj row) adj location	USPAT;	2003/02/05 12:15
			EPO; JPO;	== 00, 02, 00 12.10
			DERWENT;	
		(-7-)	IBM_TDB	l
-	0	(slot adj "and" adj row) adj location	USPAT;	2003/02/05 12:15
			EPO; JPO;	
			DERWENT;	
		· ·	IBM TDB	
_	0	slot adj "and" adj row	USPAT;	2003/02/05 12:16
		l stat day dha day tow		2003/02/03 12.10
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	63071	row and slot	USPAT;	2003/02/05 12:17
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	2468	(row and slot) same location		2002/02/05 12 12
	2400	(10% and 310t) Same 10tation	USPAT;	2003/02/05 12:18
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	640	((row and slot) same location) and display	USPAT;	2003/02/05 12:18
1			EPO; JPO;	
			DERWENT;	
			IBM TDB	
l _	1344	(row same slot) same location		2002/02/25 12 12
	1244	(10w Same Sior) Same IOCation	USPAT;	2003/02/05 12:18
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	239	((row same slot) same location) and	USPĀT;	2003/02/05 12:18
		display	EPO; JPO;	
		• •	DERWENT;	
	2	(#6140201#) DN	IBM_TDB	0000/00/05 55 55
-	2	("6148291").PN.	USPAT;	2003/02/05 13:37
			EPO; JPO;	
			DERWENT;	
:			IBM TDB	
-	434	((item\$1 or shelf or shelves or location\$1	USPAT;	2003/06/17 14:26
		or bin\$1 or aisle\$1) same (locator\$1 or	EPO; JPO;	=100,00,1, 11.20
		location\$1 or locating or inventor\$3) same		
			DERWENT;	
		(talk\$3 or voice or speech\$1 or audio))	IBM_TDB	
		and (recognition or recogniz\$3) and		
		(shopper\$1 or shopping or shop\$1 or		
		retail\$2 or cart\$1) and ((speech\$1 or		
		voice or audio) near3 (recogni\$4)) and	1	
		(DSP or processor\$1 or CPU or	1	
		microprocessor\$1)		
	l			

		Y-11	
	<pre>(((item\$1 or shelf or shelves or location\$1 or bin\$1 or aisle\$1) same (locator\$1 or location\$1 or locating or inventor\$3) same (talk\$3 or voice or speech\$1 or audio)) and (recognition or recogniz\$3) and (shopper\$1 or shopping or shop\$1 or retail\$2 or cart\$1) and ((speech\$1 or voice or audio) near3 (recogni\$4)) and (DSP or processor\$1 or CPU or microprocessor\$1)) and ((hidden adj</pre>	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/06/17 14:27
0	markov) or HMM) ((((item\$1 or shelf or shelves or location\$1 or bin\$1 or aisle\$1) same (find\$3 or locator\$1 or location\$1 or locating or inventor\$3) same (talk\$3 or voice or speech\$1 or audio)) and (recognition or recogniz\$3) and (shopper\$1 or shopping or shop\$1 or retail\$2 or	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/06/17 14:27
,	cart\$1) and ((speech\$1 or voice or audio) near3 (recogni\$4)) and (DSP or processor\$1 or CPU or microprocessor\$1)) and ((hidden adj markov) or HMM)) not ((((item\$1 or shelf or shelves or location\$1 or bin\$1 or aisle\$1) same (locator\$1 or location\$1 or locating or inventor\$3) same (talk\$3 or voice or speech\$1 or audio)) and		
- 11	<pre>(recognition or recogniz\$3) and (shopper\$1 or shopping or shop\$1 or retail\$2 or cart\$1) and ((speech\$1 or voice or audio) near3 (recogni\$4)) and (DSP or processor\$1 or CPU or microprocessor\$1)) and ((hidden adj markov) or HMM)) (((item\$1 or shelf or shelves or location\$1 or bin\$1 or aisle\$1) same (find\$3 or locator\$1 or location\$1 or</pre>	USPAT; EPO; JPO; DERWENT;	2003/06/17 14:27
	locating or inventor\$3) same (talk\$3 or voice or speech\$1 or audio)) and (recognition or recogniz\$3) and (shopper\$1 or shopping or shop\$1 or retail\$2 or cart\$1) and ((speech\$1 or voice or audio) near3 (recogni\$4)) and (DSP or processor\$1 or CPU or microprocessor\$1)) and ((hidden adj markov) or HMM)	IBM_TDB	
- 448	((item\$1 or shelf or shelves or location\$1 or bin\$1 or aisle\$1) same (find\$3 or locator\$1 or location\$1 or locating or inventor\$3) same (talk\$3 or voice or speech\$1 or audio)) and (recognition or recogniz\$3) and (shopper\$1 or shopping or shop\$1 or retail\$2 or cart\$1) and ((speech\$1 or voice or audio) near3 (recogni\$4)) and (DSP or processor\$1 or	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/06/17 16:29
- 641	CPU or microprocessor\$1) directory near2 assistan\$2	USPAT; EPO; JPO; DERWENT;	2003/06/17 16:29
- 499	(directory near2 assistan\$2) and (locat\$3 or find\$3)	IBM_TDB USPAT; EPO; JPO; DERWENT;	2003/06/17 16:51
- 194	((directory near2 assistan\$2) and (locat\$3 or find\$3)) and ((voice or speech or audio) near recognition\$1)	IBM_TDB USPAT; EPO; JPO; DERWENT;	2003/06/17 16:34
- 312	kiosk\$1 same shop\$4	IBM_TDB USPAT; EPO; JPO; DERWENT; IBM TDB	2003/06/17 16:34

-	42	(USPAT;	2003/06/17 16:38
		speech or audio) near recognition\$1)	EPO; JPO;	1
1			DERWENT;	
	2016		IBM_TDB	
_	3046	(director\$3 or inventor\$3) near (manag\$3	USPAT;	2003/06/17 16:37
		or management)	EPO; JPO;	
			DERWENT;	
	0.550		IBM_TDB	
-	3658	(director\$3 or inventor\$3 or warehouse\$1	USPAT;	2003/06/17 16:38
		or shop\$1 or floor\$1) near (manag\$3 or	EPO; JPO;	
		management)	DERWENT;	
			IBM_TDB	
_	130	((director\$3 or inventor\$3 or warehouse\$1	USPAT;	2003/06/18 18:15
		or shop\$1 or floor\$1) near (manag\$3 or	EPO; JPO;	
		management)) and ((voice or speech or	DERWENT;	
		audio) near recognition\$1)	IBM_TDB	
_	211	(705/22).CCLS.	USPAT;	2003/06/17 16:50
			EPO; JPO;	
1			DERWENT;	
	_		IBM_TDB	
-	3	((705/22).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:50
		audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	
	100-	(B05 (0 ()	IBM_TDB]
	1099	(705/24).CCLS.	USPAT;	2003/06/17 16:50
			EPO; JPO;	
			DERWENT;	
		//705/04/ 0070)	IBM_TDB	
-	3	((705/24).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:51
		audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	
	799	(705/26).CCLS.	IBM_TDB	0000 (05 (15 15 5)
	199	(703/26).CCLS.	USPAT;	2003/06/17 16:54
			EPO; JPO;	
			DERWENT;	
_	71	((705/26).CCLS.) and ((voice or speech or	IBM_TDB USPAT;	2003/06/17 16:54
	, -	audio) near recognition\$1)	EPO; JPO;	2003/06/17 16:54
		dudio, near recognition(1)	DERWENT;	
			IBM TDB	
_	66	(((705/26).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 17:10
		audio) near recognition\$1)) and (locat\$3	EPO; JPO;	2003/00/17 17:10
,		or find\$3)	DERWENT;	
			IBM TDB	1
-	526	(705/28).CCLS.	USPAT;	2003/06/17 16:55
			EPO; JPO;	=
			DERWENT;	
			IBM TDB	
-	17	((705/28).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:55
	1	audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	158	(705/29).CCLS.	USPĀT;	2003/06/17 16:55
			EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
-	4	((705/29).CCLS.) and ((voice or speech or	USPĀT;	2003/06/17 16:57
1		audio) near recognition\$1)	EPO; JPO;	
]			DERWENT;	
1		(005 (005) 000 0	IBM_TDB	
-	3639	(235/375).CCLS.	USPAT;	2003/06/17 16:58
			EPO; JPO;	
			DERWENT;	
		(100E (07E) 00E0) 1 (1	IBM_TDB	
-	41	((235/375).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:59
		audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	
	L		IBM_TDB	<u></u>

T	257	(235/376).CCLS.	USPAT;	2003/06/17 16:59
	25,	(2537576):6615.	EPO; JPO;	2003/00/17 10.39
			DERWENT;	
	Į.		IBM TDB	
-	4	((235/376).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:59
		audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	:
	140	(225 /277) COLD	IBM_TDB	0000/06/17 16 50
_	142	(235/377).CCLS.	USPAT;	2003/06/17 16:59
			EPO; JPO; DERWENT;	
			IBM TDB	
_	1	((235/377).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 16:59
	_	audio) near recognition\$1)	EPO; JPO;	2003,00,1, 10.33
		, , , , , , , , , , , , , , , , , , , ,	DERWENT;	
			IBM TDB	
-	119	(235/378).CCLS.	USPĀT;	2003/06/17 17:01
			EPO; JPO;	
			DERWENT;	
		//025/270\ 0070 \ 1 // 1	IBM_TDB	
-	0	((235/378).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 17:01
		audio) near recognition\$1)	EPO; JPO; DERWENT;	
			IBM TDB	
_	703	(235/383).CCLS.	USPAT;	2003/06/17 17:03
		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO;	2000,00,17 17.00
			DERWENT;	
			IBM TDB	
-	17	((235/383).CCLS.) and ((voice or speech or	USPĀT;	2003/06/17 17:03
		audio) near recognition\$1)	EPO; JPO;	·
			DERWENT;	
	504	(005 (005) 0070	IBM_TDB	
_	504	(235/385).CCLS.	USPAT;	2003/06/17 17:03
			EPO; JPO;	
			DERWENT; IBM TDB	
_	9	((235/385).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 17:08
		audio) near recognition\$1)	EPO; JPO;	2003/00/17 17:00
		,	DERWENT;	
			IBM TDB	
-	0	(340/572).CCLS.	USPĀT;	2003/06/17 17:08
			EPO; JPO;	
			DERWENT;	
_	653	(340/571) CCI C	IBM_TDB	2002/06/17 17 00
	053	(340/571).CCLS.	USPĀT; EPO; JPO;	2003/06/17 17:08
			DERWENT;	
			IBM TDB	
-	3	((340/571).CCLS.) and ((voice or speech or	USPAT;	2003/06/17 17:10
		audio) near recognition\$1)	EPO; JPO;	
			DERWENT;	
		(707/104.1) 0075	IBM_TDB	
-	1760	(707/104.1).CCLS.	USPAT;	2003/06/17 17:10
			EPO; JPO;	
			DERWENT;	
_	83	((707/104.1).CCLS.) and ((voice or speech	IBM_TDB USPAT;	2003/06/17 17:16
		or audio) near recognition\$1)	EPO; JPO;	2003/00/11 11:16
	(DERWENT;	
			IBM TDB	
-	80	(((707/104.1).CCLS.) and ((voice or speech	USPAT;	2003/06/17 17:16
1		or audio) near recognition\$1)) and	EPO; JPO;	
		(locat\$3 or find\$3)	DERWENT;	
1_	2065	(707/3) CCI S	IBM_TDB	2002/06/12 12 15
1	2005	(707/3).CCLS.	USPAT;	2003/06/17 17:16
			EPO; JPO; DERWENT;	
			IBM TDB	
L		L		L

	_	102	((707/3).CCLS.) and ((voice or speech or audio) near recognition\$1)	USPAT; EPO; JPO;	2003/06/17 17:18
				DERWENT;	
	_	98	(((707/3).CCLS.) and ((voice or speech or	IBM_TDB USPAT;	2003/06/17 17:18
		90	audio) near recognition\$1)) and (locat\$3	EPO; JPO;	2003/06/17 17:16
			or find\$3)	DERWENT;	
		0207	(707/10) 0070	IBM_TDB	0000 /05 /45 45 45
ļ	-	2397	(707/10).CCLS.	USPAT; EPO; JPO;	2003/06/17 17:17
				DERWENT;	
				IBM_TDB	
	-	102	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	USPAT;	2003/06/17 17:18
j			audio) near recognition\$1)	EPO; JPO; DERWENT;	
				IBM_TDB	
	-	98		USPAT;	2003/06/17 17:18
			audio) near recognition\$1)) and (locat\$3 or find\$3)	EPO; JPO; DERWENT;	
			or rinayo,	IBM TDB	
	-	2	("6497367").PN.	USPĀT;	2003/06/18 09:49
1				EPO; JPO; DERWENT;	
1				IBM TDB	
	_	1		USPAT	2003/06/18 09:50
	-	1 1		USPAT	2003/06/18 09:50
ı	-	6913	keyboard\$1 same menu	USPAT;	2003/06/18 09:51 2003/06/18 14:27
		0020	nojavaza+z same mena	EPO; JPO;	2003/00/10 11.2/
				DERWENT;	
	_	2279	(keyboard\$1 same menu) same program\$4	IBM_TDB USPAT;	2003/06/18 14:27
		2213	(keyboard) same mend, same program;	EPO; JPO;	2003/00/16 14:27
İ				DERWENT;	
	_	3662	keyboard\$1 with menu	IBM_TDB USPAT;	2003/06/18 14:27
	_	3002	keyboard; with mend	EPO; JPO;	2003/06/18 14:2/
				DERWENT;	
-	_	498	(keyboard\$1 with menu) with program\$4	IBM_TDB	0000/06/10 14 07
ŀ		4.30	(keyboard; with menu) with program;4	USPAT; EPO; JPO;	2003/06/18 14:27
				DERWENT;	
		170	(/korbandC1 with many) with many (A)	IBM_TDB	0000/06/10 14 00
		170	((keyboard\$1 with menu) with program\$4) with (operat\$3 or manag\$5)	USPAT; EPO; JPO;	2003/06/18 14:28
	1		(epolacy of managyo)	DERWENT;	
		1.7	(///>	IBM_TDB	0000/06/10 14 50
	_	17	(((keyboard\$1 with menu) with program\$4) with (operat\$3 or manag\$5)) and ((voice or	USPAT; EPO; JPO;	2003/06/18 14:59
			speech or audio) adj recognition\$1)	DERWENT;	
		00045		IBM_TDB	
	-	80845	(digital-to-analog or (digital adj to adj analog) or D/A)	USPAT; EPO; JPO;	2003/06/18 14:58
				DERWENT;	
				IBM_TDB	
	-	3757	((digital-to-analog or (digital adj to adj analog) or D/A)) same speaker\$1	USPAT; EPO; JPO;	2003/06/18 14:59
			analog, of D/A// Same Speakeryr	DERWENT;	
		4.5-		IBM_TDB	
	-	199	(((digital-to-analog or (digital adj to adj analog) or D/A)) same speaker\$1) same	USPAT; EPO; JPO;	2003/06/18 14:59
			(adapter\$1 or driver\$1)	DERWENT;	
				IBM_TDB	0000/05/55
	-	38	<pre>((((digital-to-analog or (digital adj to adj analog) or D/A)) same speaker\$1) same</pre>	USPAT; EPO; JPO;	2003/06/18 16:52
			(adapter\$1 or driver\$1)) and ((voice or	DERWENT;	
		_	speech or audio) adj recognition\$1)	IBM_TDB	
	-	0	recognizer\$1 and intepreter\$1 and ((voice or speech or audio) adj recognition\$1)	USPAT;	2003/06/18 15:37
			or speech or addro, add recodurctoust)	EPO; JPO; DERWENT;	
				IBM_TDB	

Search History 6/18/03 6:17:27 PM Page 6

-	4	recogniz\$3 and intepret\$3 and ((voice or	USPAT;	2003/06/18 15:47
		speech or audio) adj recognition\$1)	EPO; JPO;	
			DERWENT;	
	1		IBM TDB	
-	2	("4783803").PN.	USPAT;	2003/06/18 15:47
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	2580	portable and ((voice or speech or audio)	USPAT;	2003/06/18 16:39
		adj recognition\$1)	EPO; JPO;	
			DERWENT;	
	İ		IBM TDB	
_	460	portable with ((voice or speech or audio)	USPAT;	2003/06/18 16:39
		adj recognition\$1)	EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	10	(portable with ((voice or speech or audio)	USPAT;	2003/06/18 16:39
		adj recognition\$1)) with ((personal adj	EPO; JPO;	
		computer\$1) or PC\$1)	DERWENT;	
			IBM TDB	
_	1623	((voice or speech or audio) adj	USPAT;	2003/06/18 16:53
		recognition\$1) and ((hidden adj markov) or	EPO; JPO;	
		HMM)	DERWENT;	
			IBM TDB	
-	1449	(speech adj recognition\$1) and ((hidden	USPĀT;	2003/06/18 16:55
		adj markov) or HMM)	EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	2	("5390278").PN.	USPAT;	2003/06/18 16:55
		,	EPO; JPO;	
			DERWENT;	
:			IBM TDB	